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## What is claimed is:

1. A compound having structure I or II as indicated below:

$$\begin{array}{c} N + R1 \\ OH \\ R2 - Z - R2 \end{array}$$

$$(I) \qquad \qquad (II)$$

5 wherein:

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R1 represents an anion associated with the positive charge of the N atom;
R2 is selected from the group consisting of cycloalkyl groups having from 5 to 6
carbon atoms, cycloalkyl-alkyl having 6 to 10 carbon atoms, heterocycloalkyl having 5
to 6 carbon atoms and N or O as the heteroatom, heterocycloalkyl-alkyl having 6 to 10
carbon atoms and N or O as the heteroatom, aryl, optionally substituted aryl, heteroaryl, and optionally substituted heteroaryl; and
Z is a bond or (C<sub>1</sub>-C<sub>6</sub>)alkyl.

- 2. A compound according to claim 1 wherein R1 is selected from the group consisting of chloride, bromide, iodide, sulfate, benzene sulfonate and toluene sulfonate.
  - 3. A compound according to claim 1 selected from the group consisting of: 2-(8-Methyl-8-aza-bicyclo[3.2.1]oct-3-ylidene)-1,1-di-thiophen-2-yl-ethanol;
- 2-Benzyl-1-(8-methyl-8-aza-bicyclo[3.2.1]oct-3-ylidene)-3-phenyl-propan-2-ol;
   2-(8-Methyl-8-aza-bicyclo[3.2.1]oct-3-ylidene)-1,1-diphenyl-ethanol;
   3-(2-Hydroxy-2,2-di-thiophen-2-yl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide;
  - 3-(2-Benzyl-2-hydroxy-3-phenyl-propylidene)-8,8-dimethyl-8-azonia-
- bicyclo[3.2.1]octane iodide; and 3-(2-Hydroxy-2,2-diphenyl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide.

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4. A compound according to claim 3 selected from the group consisting of: 3-(2-Hydroxy-2,2-di-thiophen-2-yl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide;

- 3-(2-Benzyl-2-hydroxy-3-phenyl-propylidene)-8,8-dimethyl-8-azonia-
- 5 bicyclo[3.2.1]octane iodide; and
  - 3-(2-Hydroxy-2,2-diphenyl-ethylidene)-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane iodide.
- 5. A pharmaceutical composition for the treatment of muscarinic acetylcholine 10 receptor mediated diseases comprising a compound according to claim 1 and a pharmaceutically acceptable carrier thereof.
  - 6. A method of inhibiting the binding of acetylcholine to its receptors in a mammal in need thereof comprising administering a safe and effective amount of a compound according to claim 1.
  - 7. A method of treating a muscarinic acetylcholine receptor mediated disease, wherein acetylcholine binds to said receptor, comprising administering a safe and effective amount of a compound according to claim 1.

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8. A method according to claim 7 wherein the disease is selected from the group consisting of chronic obstructive lung disease, chronic bronchitis, asthma, chronic respiratory obstruction, pulmonary fibrosis, pulmonary emphysema and allergic rhinitis.

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- 9. A method according to claim 7 wherein administration is via inhalation via the mouth or nose.
- 10. A method according to claim 7 wherein administration is via a medicament
  30 dispenser selected from a reservoir dry powder inhaler, a multi-dose dry powder inhaler or a metered dose inhaler.

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11. A method according to claim 8 wherein the compound is administered to a human and has a duration of action of 12 hours or more for a 1 mg dose.

- 12. A method according to claim 11 wherein the compound has a duration of actionof 24 hours or more.
  - 13. A method according to claim 12 wherein the compound has a duration of action of 36 hours or more.